

New York State Department of Transportation

Yellow Flag NB22CTW026

By: Rehan Afridi

Flag Date: July 26, 2022

Superseding Information:

No Flags Superseded

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: July 26, 2022 2:00:00 PM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: August 03, 2022

Reviewed By: Robert Kemp

Date: August 03, 2022

Attachments: 7

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 225			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB22CTW026 is NEW.

Location: Span 225, Girder G1 at Pier 225

Description: The left side connection angle of Girder G1 in Span 225 at Pier 225 exhibits a 6" long by up to 1/4" wide corrosion crack in the fillet of the connection angle. Additionally, the connection angle exhibits up to 1/2" thick pack rust at the top 3 inches and 1/8" to 3/16" deep pitting throughout.

This is a NEW flag.

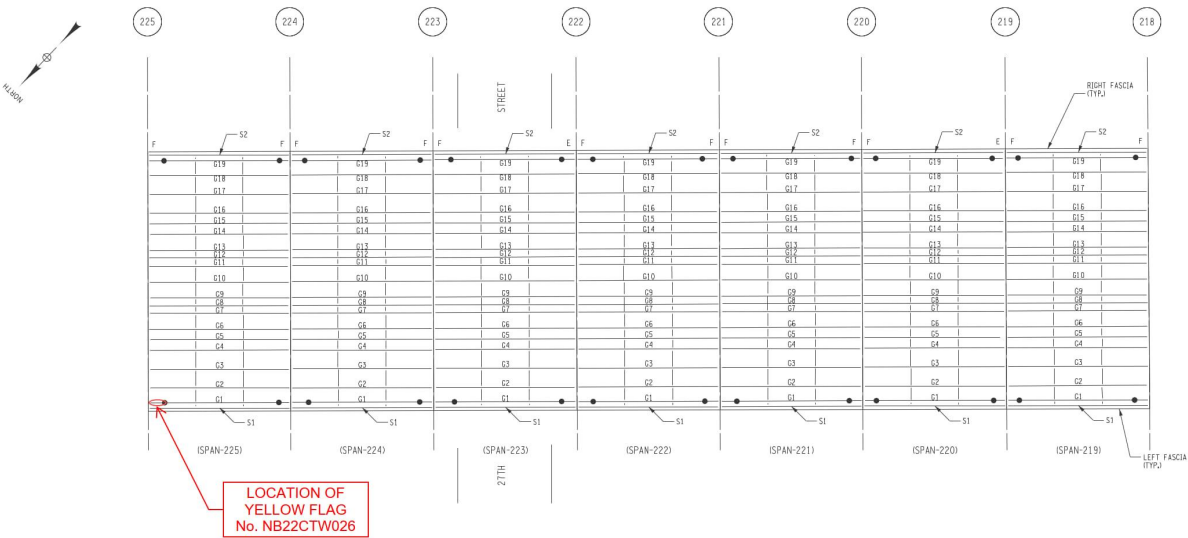
Notes:

- 1.The affected member, Girder G1 is load path redundant steel girder.
- 2.The right side connection angle of G1 at Pier 225 exhibits up to 1/2" thick pack rust at the top 3 inches, and the bottom 3 inches exhibit up to 50% section loss.
- 3.The web at G1, along the connection angle, exhibits approximately 36% overall section loss for 4" wide over the full height $(0.1875" + 0.25")/2 = 0.219"$; $0.219"/0.608" = 0.36$ (36%). Additionally, the lower web on the left side exhibits a 1" to 3" high by 2'-0" long area with 3/16" to 1/4" deep section loss. The right side of Girder G1 web exhibits a 5" high by 3" wide area with 1/8" deep pitting at the top cope. The lower web exhibits a 1" to 3" high by 2'-0" long area with 1/16" to 1/8" deep pitting (see sketch).
- 4.The adjacent Stringer S1 (left side) spaced 2'-01" center to center is in fair to poor condition with a full height vertical crack at the left side connection angle. Yellow Flag No. NB22CTW025 was issued for this condition in Stringer S1.
- 5.The adjacent Girder G2 (right side) spaced 5'-4" center to center is in good to fair condition.
4. A double left lane closure at 3rd Avenue Westbound between 26th and 27th Streets, and a 35' bucket truck are required to access this location.

Flag Photographs

Photo Number: 1

Photo Filename: Framing Plan.jpg



Attachment Description: Framing Plan Span 225

Photo Number: 2

Photo Filename: Span 225 - G1 at P225_Sketch.jpg

Gowanus Expressway
2022 Biennial Inspection - Field Sketch

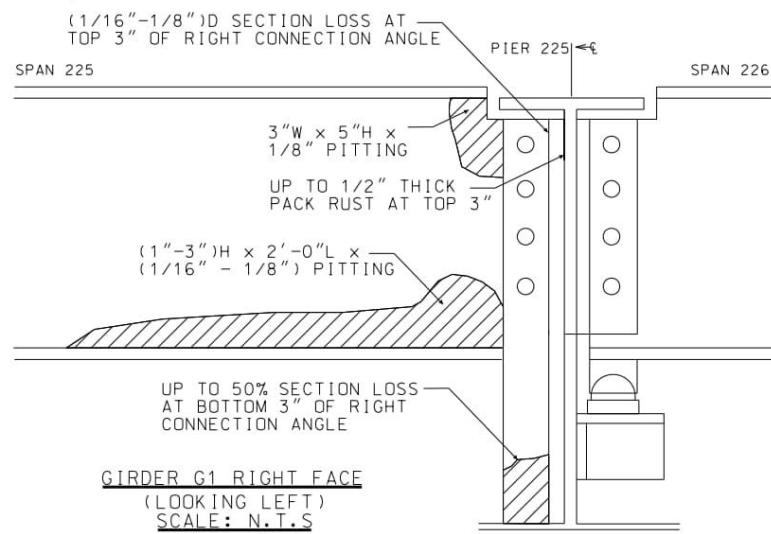
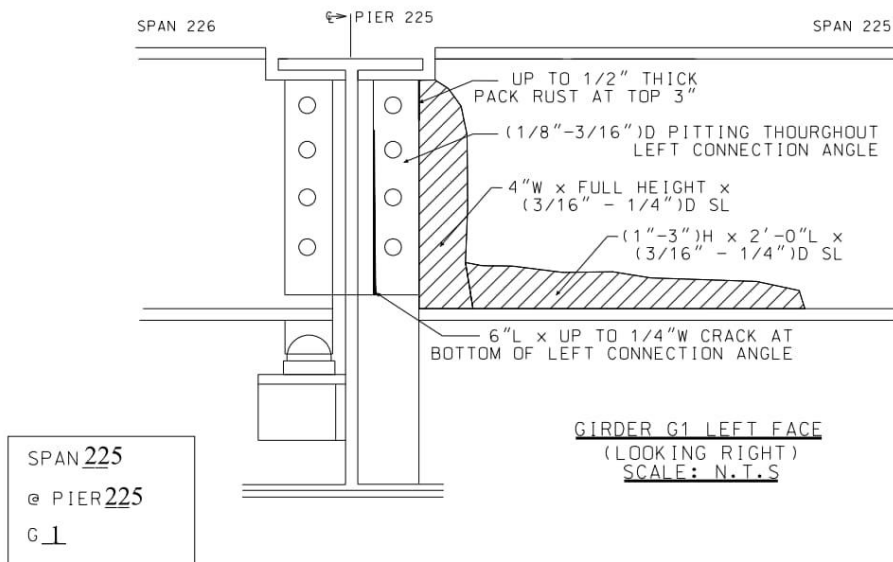
BIN: 1065318

Team: RA/MP

Date: 07/26/2022

Span: 225

Location: G1 @ Pier 225

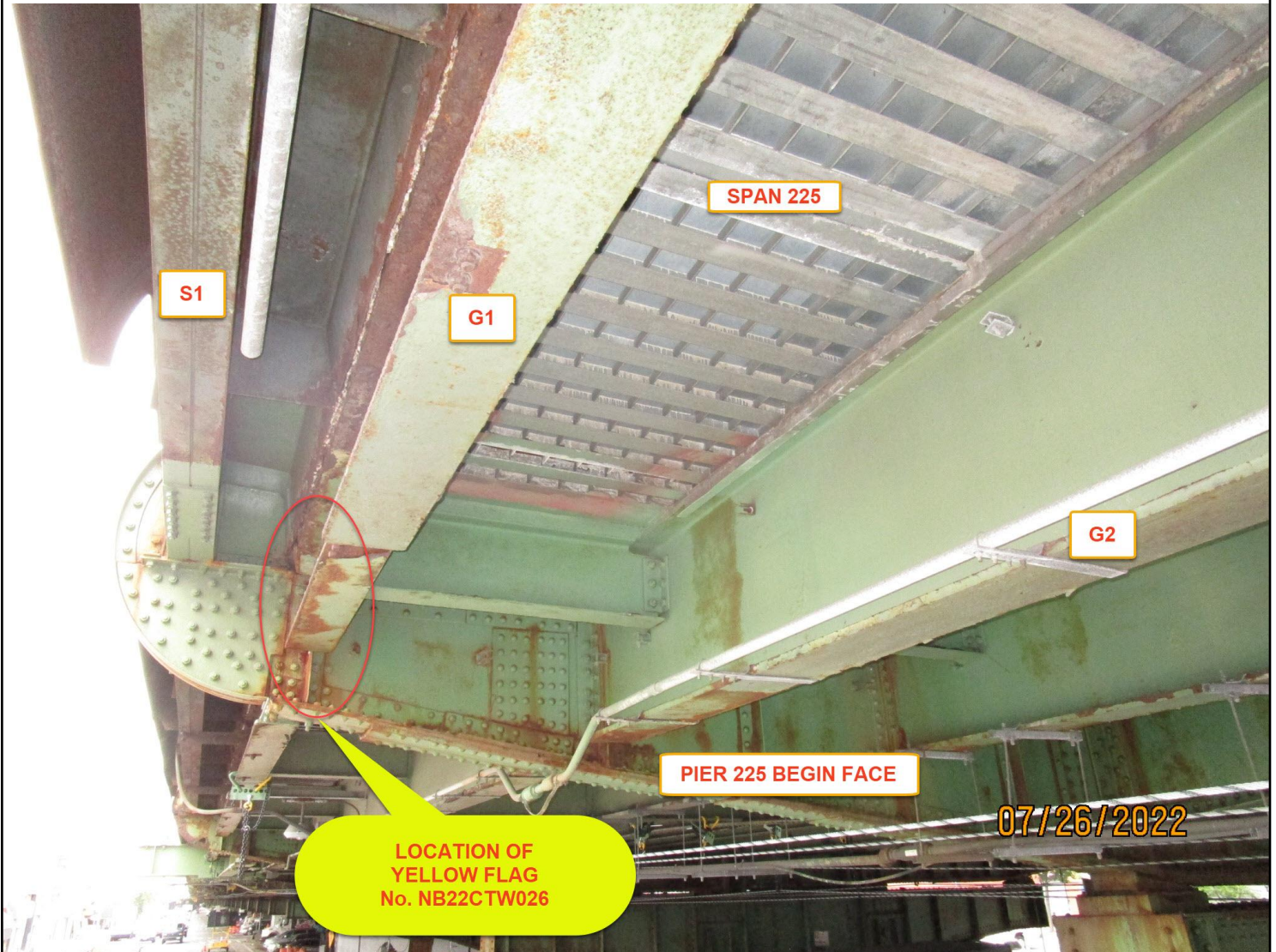


wsp

Attachment Description: Yellow Flag Condition Sketch

Photo Number: 3

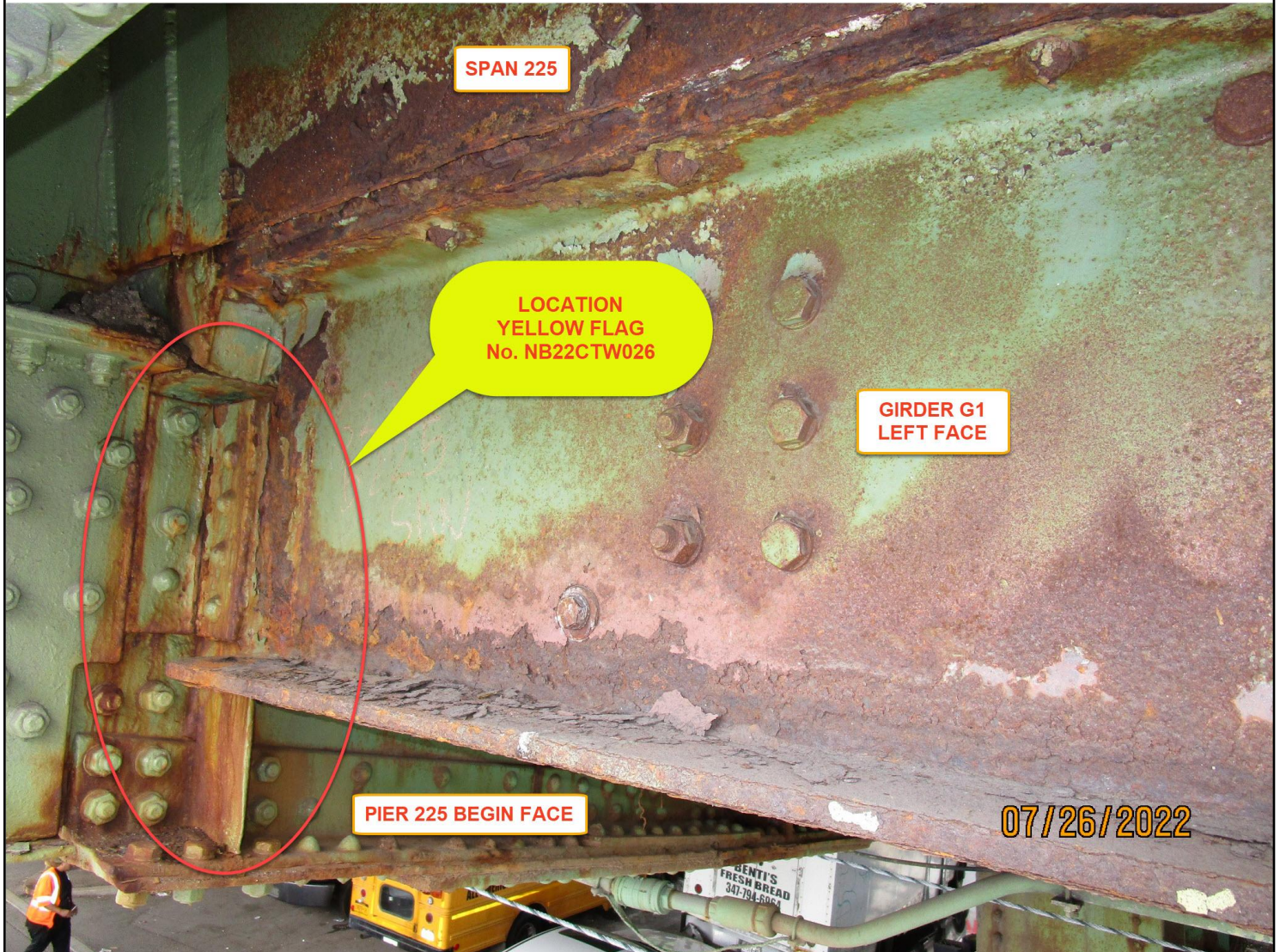
Photo Filename: Photo 1-RA 665_2906.jpg



Attachment Description: General view of the flagged condition at Span 225 Girder G1 at Pier 225. Looking End.

Photo Number: 4

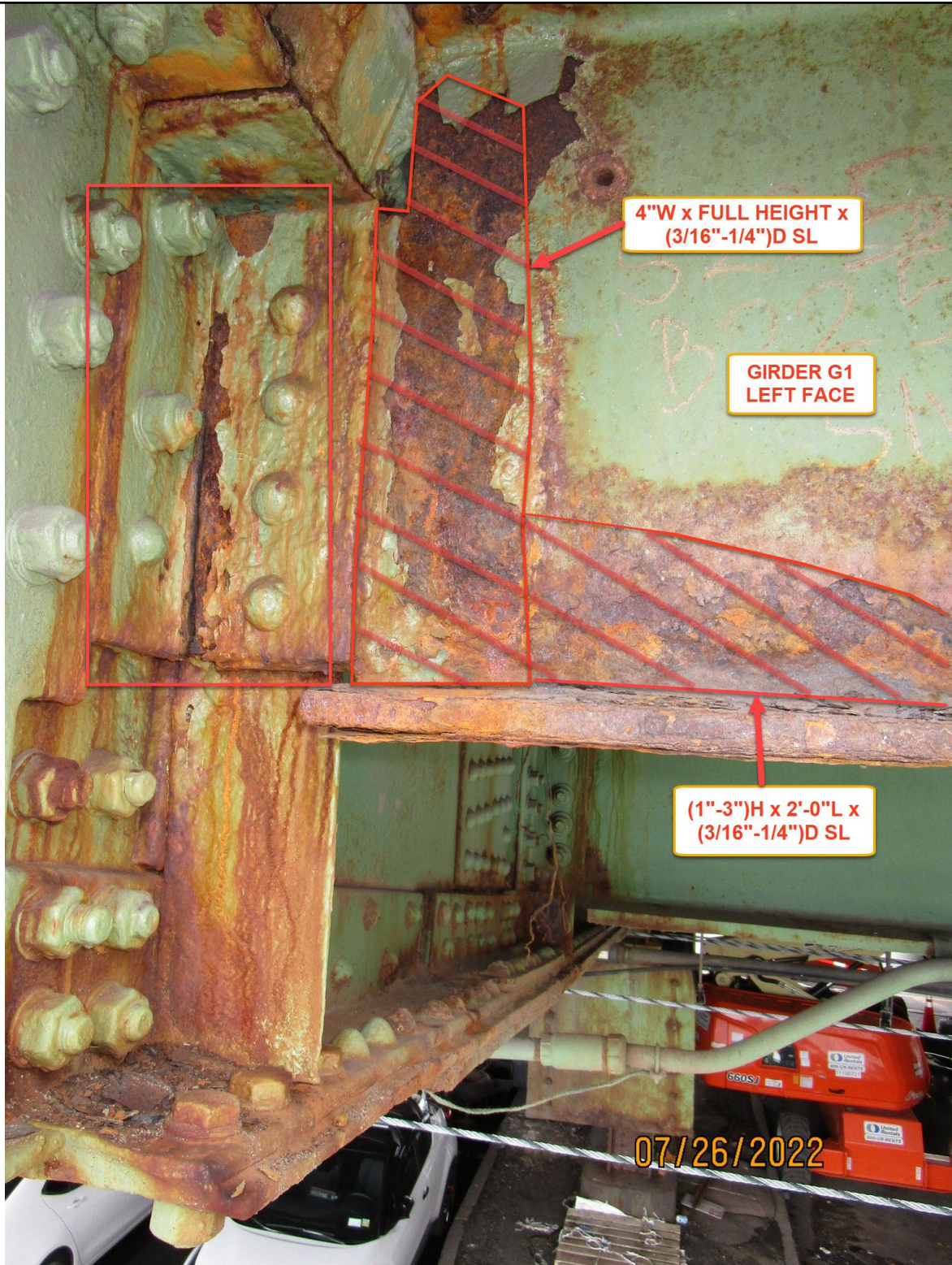
Photo Filename: Photo 2-RA 665_2891.jpg



Attachment Description: Close up general view of the flagged condition at Span 225 Girder G1 at Pier 225. Looking End Right.

Photo Number: 5

Photo Filename: Photo 3-RA 665_2893.jpg



Attachment Description: The left side connection angle at Girder G1 in Span 225 exhibits a 6" long x up to 1/4" wide corrosion crack in the fillet of the connection angle. Looking Right.

Photo Number: 6

Photo Filename: Photo 4-RA 665_2895.jpg



Attachment Description: Close up view of the left side connection angle with a 6" long x up to 1/4" wide corrosion crack in the fillet of the connection angle. Looking Right.

Photo Number: 7

Photo Filename: Photo 5-RA 665_2899.jpg



Attachment Description: The right side connection angle at Girder G1 in Span 225 exhibits up to 1/2" thick pack rust at the top 3 inches, and the bottom 3 inches exhibit up to 50% section loss. Looking Left.